

Statement of Work

Item	Description	Applicable Contract Function
1	Thermal Coatings Selection, Review, and Recommendation	Implementation Phase Services – Mechanical Systems Disciplines
Performance Requirements		Delivery Schedule:
Review, select and recommend thermal control coatings and materials for space application to address project needs. Provide support to and participate in meetings of the GSFC Coatings Committee, as needed. Assist with the determination of beginning-of-life (BOL) and end-of-life (EOL) thermal radiative property predictions of thermal control coatings and surfaces based on specified mission parameters, laboratory testing and space flight data. Participate in discipline (thermal, contamination, and mechanical) peer reviews, as needed.		12 Month(s)
Item	Description	Applicable Contract Function
2	Thermal Coatings Application	Implementation Phase Services – Mechanical Systems Disciplines
Performance Requirements		Delivery Schedule:
Perform thermal coatings application and thin film deposition utilizing GSFC coatings thermal vacuum systems and spray booths. Perform touch- up and repair of coated flight hardware and surfaces, as requested. Perform general maintenance to maintain upkeep of the GSFC on-site thermal control coatings application and thin film deposition equipment and facilities (vacuum chambers, spray guns, spray booth, etc.). Governing GSFC ISO work instruction documents: 546-WI-8072.1.62 -- Procedure for Application of Aeroglaze Z306 and Aeroglaze A276 Thermal Control Coatings 546-WI-8072.1.63 -- Procedure for Application of Aeroglaze Z307 Coatings 546-WI-8072.1.64 -- Procedure for Application and Maintenance Metallized Teflon Tape With/Without ITO Topcoat 546-WI-8072.1.68 -- Formulation/Application of Silicate Based Electrically Conductive Thermal Control Coating 546-WI-8072.1.71 -- Procedure for Specification/Application Of Z-93P and AZ93 Thermal Control Coating 546- WI-8072.1.72 -- Procedure for Application of 3M 425 Aluminum Foil Tape for Space Flight Use 546-WI-8072.1.73 -- Procedure for Application of Transfer Adhesives for Tape Fabrication and Heater Attachments 546-WI-8072.1.76 -- Procedure for Deposition of Aluminum Composite Thin Film Thermal 546-WI-8072.1.77 -- Procedure for Deposition of		12 Month(s)

Silver Composite Thin Film Thermal Control Coatings 546-WI-8072.1.79 -- Procedure for Deposition of Single Layer Thin Film Thermal Control Coatings, Procedure for Specification/Application of Electrically Dissipative White Silicate Thermal Control Coating, 546-WI-8072.0.1. Provide production support to EXIS, SUVI, and GLM test, EDU, and flight hardware		
Item	Description	Applicable Contract Function
3	Coatings and Materials Testing	Implementation Phase Services – Mechanical Systems Disciplines
Performance Requirements		Delivery Schedule:
Evaluate and thermal control coatings and materials for flight application including testing and analysis of material adhesion and particulation during launch and on-orbit environments. Evaluate durability of coatings during I&T processing. Governing ISO documents: Guidelines for Selection, Application, Characterization and Testing of Thermal Coatings (546-PG-8700.2.1) and Requirements for Thermal Design, Analysis, and Development (545-PG- 8700.2.1A).		12 Month(s)
Item	Description	Applicable Contract Function
4	GOES Project Support	Implementation Phase Services – Mechanical Systems Disciplines
Performance Requirements		Delivery Schedule:
Support to GOES-R instruments, SUVI, EXIS, and GLM. Attend project meetings and reviews, at GSFC. Participate in instrument teleconferences, face-to-face meetings, as requested by the GOES-R Instrument Managers. Participate in independent technical assessments, consultations, tests and analyses, as requested by the GOES R program.		12 Month(s)
Item	Description	Applicable Contract Function
5	Procurements	Implementation Phase Services – Mechanical Systems Disciplines
Performance Requirements		Delivery Schedule:
Procure contamination control items, thermal control coatings and associated materials such as: Z93C55 or MLP300-AZ and additional services or materials as directed by TM		12 Month(s)
Item	Description	Applicable Contract Function
6	Travel	Implementation Phase Services – Mechanical Systems Disciplines

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Title: Thermal Coatings Engineering Support to GOES R Project

Performance Requirements	Delivery Schedule:
Travel to other NASA centers and vendor locations to address thermal coatings activities, GOES related program activities and/or issues, as needed.	